

Celluloid is being used in Paris for making stereotypic plates. The mold is taken in a special cement, which quickly hardens after receiving the impression. The sheet of celluloid is then used to obtain the impression to be employed in printing. This substance has also been used for giving typographical representations of lace, the impressions being taken from the lace itself.

The brilliant light of the electric arc is found to be much less dangerous to the eyes than was for some time believed. So high a medical authority as the London *Lancet* reports that but one case of serious injury from exposure to the dazzling light has come under its notice, and that in that instance the exposure was unusually severe and prolonged.

Experiments of M. Gautier appear to prove that human saliva possesses the same poisonous property as that of serpents, although in a milder form. The human saliva injected under the skin of a lizard caused death, with symptoms very closely resembling those resulting from serpent bites.

In St. Petersburg use has been made of electricity in pumping water, with a view of making it serviceable in putting out fires. The experiments seem to have been satisfactory. The same current used for lighting a building may thus furnish power for throwing water on the flames in case it should take fire. Such an application ought to be especially valuable in the case of theatres and other buildings where large numbers of people assemble and where the prompt introduction of a stream of water might be the means of averting a great loss of human life.

One of Proctor's most interesting lectures treats of astronomical time and the ages of the planets, commencing with the earth. From the different geological features of the earth's surface, it has been computed that the formation of its crust must have alone occupied 100,000,000 years. Such is the estimate formed by Crowe and accepted by Sir Charles Lyell. From the investigations of various physicists and experiments by Descartes, it is found that 350,000,000 years must have elapsed while the earth was cooling from 2,000 degrees to 200 degrees of temperature. Prior to this again, the earth existed for a long period in a nebulous condition. The earth may, therefore, be fairly assumed to be 500,000,000 years old—and this is considered as erring to the side of deficiency rather than to excess. Comparing this planet with Jupiter, on the principle that the larger a body is the longer must be its time of cooling, it is calculated that it will be 3,000,000,000 years before Jupiter reaches the stage our planet has now attained. Ten times as long a period must pass before the sun arrives at a similar condition. The sun was in this relative period of his existence 420,000,000 years ago. If our planet is of nearly the same age as the earth it is Venus. Mars is older. Mercury is older still; the moon, the oldest of all. The features of Venus must resemble those of the earth. Mars is about equally divided into land and water, and must have an atmosphere. The moon pictures the earth's future condition. It is a dead world. It has neither water, clouds, nor atmosphere. But, as the earth is 81 times larger than it is, while it has thirteen times as much surface, about 2,500,000,000 years will be required for it to arrive at the sun's present condition. Following out this theory, we greatly reduce the number of planets on which life is possible. In our solar system we have only the earth, possibly Venus, and it may be, some of the satellites.

Enthusiasts who make a special study of sun-spots and attendant phenomena believe that the corner-stone of a new science is now being laid by the discovery of an intimate connection between terrestrial storms and activity of the heated gases surrounding the sun. Just what the connection is they are not yet able to clearly define, although electricity is suspected of being the agent through which the effects are manifested upon our planet. It is known that the gaseous envelope of the sun is affected by eruptions of such prodigious magnitude as to be utterly beyond our power of conception, these disturbances appearing to us in the form of rapidly changing spots on the solar disk. The spots come and go at remarkably regular intervals, a complete cycle of the various stages of activity from maximum to minimum and again to maximum being performed in about eleven years—the so-called "sun-spot period." The present year has been one of great solar convulsions, and sun-spot physicists have been taking measures to verify their theories that sun-storms produce a marked effect upon the earth and its inhabitants. Their views seem to be strongly confirmed. While the present has been a year of violent terrestrial storms and earthquakes, these scientists claim to have proven by simultaneous observation a correspondence between minor meteorological phenomena and changes upon the sun. The eminent meteorologist, Prof. Piazzi Smith, *Astronomer Royal* for Scotland, with many others, are of the opinion that the state of the sun will some day become an important factor in weather forecasts and similar calculations.

A new theory of the so-called bird-mistakes by snakes is that the bird mistakes the snake tongue, which the reptile keeps in constant motion, for a lively worm, and watches it with the expectation of devouring it.

A man writes to ask how he is to swear with any force, since the new version has knocked so much expression out of two old words. Dear sir, we can't just tell you, but you wait round the church door on a bitter cold night for your girl to emerge, and finally see her come out looking on the arm of another fellow who will take her home, and you won't need any instructions in the art of swearing. It will not come to you.

Politeness is not a sign of wisdom, but the want of it always leaves room for a suspicion of folly.

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## NEW YORK LETTER.

NEW YORK, Nov. 5, 1881.

EDITOR GAZETTE.—The dry spell has been broken; the long looked for fall rains have come at last and the hearts of householders who were put on short allowance of water because of the long continued drought rejoice. Off and on it has rained for several days and on Thursday night it came down in torrents for several hours increasing the supply in the Croton river and replenishing the nearly empty reservoirs beyond the most sanguine expectations of the Water Commissioners, who had been led to think that New York was to be cursed with a water famine throughout the winter, or, at least, until the January thaw should come. The drought throughout that portion of the country, which supplies this market with its meat, butter and vegetables, has so seriously affected the cost of these necessities articles afford, that many families must suffer during the coming winter, unless there shall be an unprecedented boom in all kinds of business and a corresponding increase in the wages of the laboring classes. Even the rich with an abundance of this world's goods, whose leisure hours are spent cutting off coupons or in computing interest are grumbling. Milk already at ten cents a quart, butter at 30 cents a pound, potatoes and cabbage, usually so plenty and so cheap at this season, held at figures that make them appear positive luxuries, do not tend to make the outlook for those who always practice the most rigid economy, very cheerful. Even Danmacco, that prince of cutters, whose prices would unnerve a man of ordinary income, has increased his rates some thirty three per cent. The cheaper restaurants have not done this, but the habitual guest at these establishments has found out that though he is charged no more for his usual repast, the quantity served is diminished and that the quality is not up to the usual standard. But I suppose we must grin and bear it, while those who were fortunate enough to be blessed with a bountiful harvest of everything are unloading their crops and raking in the dollars in exchange.

It was startling news that came flashing over the wires from our brisk manufacturing neighbor—Newark, New Jersey, on Monday morning. People could scarcely believe at first that a bank cashier could appropriate to his own use \$2,000,000 belonging to an institution with which he had long been connected; but when the true inwardness of the business was ascertained, and the laxity of his superior officers stood revealed in the light of investigation, we were only surprised that Cashier Baldwin of the Mechanics' National Bank had even deigned to leave anything behind him on which confidence, backholders and depositors could realize. Wall street and other speculators are at the bottom of the trouble. For years Baldwin has been running the bank as he saw fit, using the funds as he required them without hindrance, and only when the last dollar of security was hypothecated, calling in the money which he believed him to be the soul of honor and model of integrity, and quietly confessing that he had all along been a liar, a perjurer and a robber, and that through his operations New Jersey's strongest financial institution, which had safely weathered the storms of fifty years, was hopelessly insolvent. The venerable president of the bank, who is over 80 years of age, and an invalid, was astounded by the revelations his cashier made. He said he had thought so highly of him, that he had often wondered whether he loved best, this self-confessed robber or his own son, and that he had been so deceived by his "child-like and bland" ways that he had named him in his will as his executor. Oscar C. Baldwin, with a few days ago was honored and respected second to no man in the community in which he lived. Greed for wealth was his ruin, and he will go down to his grave disgraced and execrated.

Political matters in our midst were never more lively. Over in Brooklyn the Mayoralty contest which began with five candidates in the field has narrowed down to two, and their respective adherents are vigorously fighting every inch of ground. The Democrats candidate has already secured two terms will conspicuous ability, reducing taxation and giving general satisfaction. The Republican candidate is fifty years of age. He is backed up by large wealth, being the oldest son of a tea importer who is reputed to be worth \$5,000,000. A large campaign fund has been raised to forward his interests, and in addition the young man is placing a nice little slice of his yearly income where it will do the most good; consequently things politically are quite lively in the "City of Churches," and the political "strikes" are doing a very good fall trade.

In the Eleventh Congressional District, in this city, two very wealthy men are pitted against each other, and money is being poured out like water. If H. Astor, of the Astor family, which is supposed to rank next to the Vanderbilt family in point of wealth, is the Republican candidate, and he is making a personal canvass, visiting the manufactories, the breweries and the stores, not forgetting to call at the liquor stores with which the district abounds, and setting up the drinks and cigars for the crowd with a lavishness the like of which has no parallel in the memory of the oldest inhabitant. It will cost him a pretty penny before election night, for Roswell P. Flower, his opponent, a self-made man of liberal ideas, is putting up his money with like promptitude. It is an expensive district to manipulate. In 1876 Levi P. Morton squandered \$40,000, and was defeated on the same ticket Astor now heads. In 1878 Morton retaken it again, and was successful at a cost of \$50,000, and in 1880 once more won the same race only to be poorer \$75,000, at the end of the canvass. Playing at politics in New York city is costly work, as you can see, and we hardly think the game worth the powder. LAURENS.

## TEMPERANCE TOPICS.

It appears that the Chicago, St. Paul, Minneapolis & Omaha Railroad stipulates in its deeds conveying village land along the line of the Northern Wisconsin route, that "no strong, spirituous, malt, or intoxicating liquors shall ever be sold, manufactured, trafficked, given away, or otherwise disposed of as a beverage," on pain of annulling the instrument, and re-vesting the property thus sold, contrary to the desires of the extraordinary, to the original owners. The validity of such prohibition title deeds has been affirmed by the United States Supreme Court in a test case appealed from Colorado, and this plan of interdicting the drink-traffic is therefore strictly legal and practical. Therefore, either from foreign countries or from the Eastern States, seeking Vestern homes, will find these lands thus particularly exempted from the demoralizing and impoverishing presence and influence of breweries, distilleries, and liquor-salons most desirable, on that account, for their purposes. The people who would avoid localities wherein the liquor-traffic is prohibited are just the ones who would be much more welcome than their presence. We commend this practice, worthy precedent of the Chicago, St. Paul, Minneapolis & Omaha Railroad Company to the favorable consideration of all land-owners, corporate and individual, as one which may everywhere be most advantageously adopted and followed.

A striking cartoon in a late number of the New York *Graphic* illustrates very significantly the troublesome Indian problem. The artist makes a prominent feature of the Indian's face, and represents the recent outbreak of violence on the United States soldiers by intoxicated and infuriated Indians; and somewhat in the background is an Indian agent with a barrel of whiskey, from which he is filling bottles and providing the Indians with whiskey supplies. Underneath the cartoon is a question asked, "What are we going to do about it?" The question should be thoughtfully and manfully answered. This whiskey-bottle, troublesome and expensive everywhere, is especially so among the Indians, and white men are the ones who, for the sake of gain and regardless of consequences, introduce it there. As the *Graphic* says, "the Indian agent is not a saint, by any means, but he did not drink whiskey, nor did he sell it, nor did he do anything else which he does now until he was taught to do by the whites." When the manufacture and sale of whiskey for drinking purposes among white people is made illegal everywhere, as now in Maine and Kansas, one great source of violence on the part of the Indians will have been removed.

## WHAT THE LIQUOR-DEALERS ARE SAYING.

The *Camden Freeholder* prints, and ably answers, an appeal from the liquor-dealers have addressed to the Legislature of that State and to "the friends of personal liberty." We quote from this "appeal" the following: "Should the temperance advocates succeed in their efforts one of the largest, most productive industries of the country is to be swept away and destroyed by legal enactments in this State. Hundreds of thousands of people are to be thrown out of employment, millions of invested capital are to be wasted and returned unproductive. The farmers will be by law reduced to seek other sources of profit, or they will have to consume pork and beef, thus glutting the market and entailing upon themselves loss and ruin. Those whose lands are unfit for other cereals will be reduced to entire destitution. In proportion to the reduction of the farmer's income will the sale of all the manufactured articles supporting our national commerce and industries be reduced. The smaller the consumption, the smaller the production, hence the scarcer will be the demand for labor and skill. You cannot take one wheel out of the great machinery, prosperity, without ruining the whole machine and ruining it. The manufacture of wine, beer and alcoholic beverages is one of the great sources of our State. Take it away, and you might place yourself five hundred years ago when the wild Indians ruled this country. Now, why not do away with fire, for your houses, barns, and cities might be destroyed, or to do away with steam vessels, for they will have to consume coal and beef, thus glutting the market and entailing upon themselves loss and ruin. Those whose lands are unfit for other cereals will be reduced to entire destitution. In proportion to the reduction of the farmer's income will the sale of all the manufactured articles supporting our national commerce and industries be reduced. 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